

Axis Connector Information



Most Primatics motion controls and pre-wired positioning stages use an industrial 28 position circular connector. This note describes the make-up of these connectors.

Connectors are available in panel mount and cable versions. The panel mount versions include a mounting flange that allows the connector to be mounted into a panel. Cable versions do not include this mounting flange. Either type may be used on the end of a cable. Both types are used with a backshell strain relief.

Standard configuration uses a panel mount with sockets on motion controls.
 Standard configuration uses a panel mount with pins on the positioning stage.
 Standard configuration axis cables use the cable version of connectors at each end.
 Standard extensions cables have a cable version at one end, and a panel mount at the other.

A complete connector consists of a connector body, backshell, and pin or socket contacts.

Connector Parts

Manufacturer: ITT Cannon. Similar parts also available from FCI.

| Description | Cannon P/N | Remark |
|---|-------------|--|
| CONNECTOR BODIES | | |
| Connector body, panel mount, 28 pins | 192926-0480 | Mates with cable mount, 28 sockets |
| Connector body, panel mount, 28 sockets | 192922-1230 | Mates with cable mount, 28 pins |
| Connector body, cable mount, 28 pins | 192922-1290 | Mates with panel mount, 28 sockets |
| Connector body, cable mount, 28 sockets | 192926-0540 | Mates with panel mount, 28 pins |
| BACKSHELL | | |
| Backshell | 192922-1350 | Use with any connector body above |
| CONTACTS | | |
| Pins, crimp, 26-24 AWG | 192990-0020 | Use with Crimp Tool |
| Pins, crimp, 22-20 AWG | 192990-0040 | Use with Crimp Tool |
| Pins, crimp, 18-16 AWG | 192990-0060 | Use with Crimp Tool |
| Pins, crimp, 16-14 AWG | 192990-1240 | Use with Crimp Tool |
| Sockets, crimp, 26-24 AWG | 192990-0030 | Use with Crimp Tool |
| Sockets, crimp, 22-20 AWG | 192990-0050 | Use with Crimp Tool |
| Sockets, crimp, 18-16 AWG | 192990-0070 | Use with Crimp Tool |
| Sockets, crimp, 16-14 AWG | 192990-1250 | Use with Crimp Tool |
| Pins, solder cup | 192900-0632 | Solder to conductors up to 14 AWG |
| Sockets, solder cup | 192900-0634 | Solder to conductors up to 14 AWG |
| Keying pin | 192990-0000 | Use in position 'a' for servo axes, position 'D' for stepper axes. |
| HAND ASSEMBLY TOOLS | | |
| Extraction Tool | 192922-1450 | Used with all contacts |
| Crimp Tool, ratcheted | 112108-0014 | Used with crimp contacts 26-16 AWG |
| Crimp Tool, low cost, low volume | 192922-1440 | Used with crimp contacts 26-14 AWG |

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Connector and Tool Kits

The following kits are available for users to terminate cables with mating connectors.

| Kit Model | Remarks |
|--------------------------------------|--|
| CONN KIT 28POS SKT PANEL | Primatics P/N 0-3064-1000 which consists of: 1 panel mount connector body for sockets 1 backshell 5 crimp sockets 16-18AWG 30 crimp sockets 20-22 AWG |
| CONN KIT 28POS SKT CABLE | Primatics P/N 0-3064-1100 which consists of: 1 cable connector body for sockets 1 backshell 5 crimp sockets 16-18AWG 30 crimp sockets 20-22 AWG |
| CONN KIT 28POS PIN PANEL | Primatics P/N 0-3064-1200 which consists of: 1 panel mount connector body for pins 1 backshell 5 crimp pins 16-18AWG 30 crimp pins 20-22 AWG 1 keying pin |
| CONN KIT 28POS PIN CABLE | Primatics P/N 0-3064-1300 which consists of: 1 cable mount connector body for pins 1 backshell 5 crimp pins 16-18AWG 30 crimp pins 20-22 AWG 1 keying pin |
| CONN TOOL KIT - CRIMP AND EXTRACTION | Primatics P/N 0-3064-1400 which consists of: 1 extraction tool 1 crimp tool (low cost, low volume) Used with any of the contacts in the kits listed above. Only one kit required per user and tools can be reused on many connectors. |